

TERRA

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NATURAL HISTORY MUSEUM OF
LOS ANGELES COUNTY



CALENDAR OF EVENTS INSIDE!

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STONES FROM HEAVEN

Ancient Chinese Jade

ALTHOUGH JADE HAS BEEN A source of fascination to peoples throughout the world, nowhere has it enjoyed greater lasting attention than in China.

Recent discoveries of jade-cutting implements in the northeastern province of Liaoning indicate that jade was worked in China as early as 12,000 years ago. At sites dating to around 6000 B.C. in China's northeastern and southeastern regions, archaeologists begin to find a variety of jade ornaments, the most common of which are slit-ring earrings. However, it is late Neolithic localities, dating from approximately 6,000 to 4,500 years ago, that reveal an explosion of jade culture across China.

In addition to animal figurines, weapons, and ornaments, the jades from the Neolithic era include objects that were found with the remains of altars or sophisticated burials and that presumably were employed for ritual worship. Discoveries of these and other jades with unusual markings or designs have been invaluable to scholars working to classify and date similar artifacts long treasured in museums and private collections around the world.

To the ancient Chinese, any beautiful stone that could be carved, no matter what its true nature, was called *yu*, a word that we today translate as "jade." Within the last century, it has become universal practice to consider only two materials to be "true jades." The first is nephrite, a rock composed of densely intergrown fibers of minerals in the tremolite-actinolite series; the second is the densely intergrown form of the mineral jadeite. Both kinds of jade are noted for their extreme toughness (resistance to breaking), making them particularly suitable for carving. Many of the earliest Chinese artifacts were shaped from nephrite (jadeite



Cover: Jade ornament, Western Han Dynasty (206 B.C. to A.D. 24). Height 10.5 centimeters (4.1 inches). Piao-te-hsüan Collection.

jade, known as *feicui* in China, was not introduced there until the eighteenth century A.D.).

The many very ancient jades that archaeologists have uncovered in the last several decades are highly significant to the study of the development of Chinese civilization and culture. Images and designs on these objects have bearing on the origins of Chinese writing, ritual practices, and cosmological ideas. But the recent discoveries also bring to the forefront an intriguing idea first mentioned in ancient Chinese records: that in passing from the Stone Age to the Bronze

Age, China experienced a unique intermediary stage that could be termed the Jade Age.

The exhibition *Stones from Heaven: Ancient Chinese Jade*, which opens March 3 at the Museum of Natural History in Exposition Park, is a unique opportunity for the American public to view an outstanding collection of Chinese jade dating from the time of the Han Dynasty (206 B.C. to A.D. 24) back to the late Neolithic era. The exhibition, a joint project of the Natural History Museum of Los Angeles County and the National Museum of Natural Science in



Taichung, Taiwan, is composed of original pieces from two major private collections. To give an overview of the development of pre-Han jade types, the exhibition begins with a selection of remarkable artifacts from the renowned Piao-te-hsüan collection, which was recently exhibited in the National Palace Museum in Taipei. The body of the exhibition then employs ancient finished and unfinished pieces from the collection of Wu T'ang-hai of Taiwan to illustrate aspects of the lapidary technology of early Chinese jade.

The ancient Chinese believed that jade contained vital, elemental, and magical powers. They fashioned ritual tools for communication with the spiritual world out of this special material, making their jade *bi* discs round because they believed that Heaven was round and all encom-

passing, and crafting jade *cong* tubes to represent their concept of the earth as square and enclosed within the four compass points. By the time of the Western Han, the Chinese were even interring their nobility in jade burial suits, believing that the jade would ensure immortality. *Stones from Heaven: Ancient Chinese Jade*, contains one of the few of these burial suits to have survived into modern times; the exhibit offers visitors a rare chance to examine such remarkable artifacts firsthand and to explore the ingenuity of the ancient Chinese who crafted them.

DR. ADAM T. KESSLER
Associate Curator, Exhibitions

Stones from Heaven: Ancient Chinese Jade, will be on view in the Dart Gallery of the Exposition Park museum through May 12.



OPPOSITE

Jade pendant with openwork dragon and monkey design, Western Han Dynasty (206 B.C. to A.D. 24). 7.5 by 5.4 centimeters (3 by 2.1 inches). Piao-te-hsüan Collection.

ABOVE

Most noteworthy of the Neolithic era jades recovered from the remains of altars or burial sites are a "pig-dragon" figurine of the Hongshan culture (4000 to 3000 B.C.) of China's northeast (right) and a fragment of a *cong* tube ritual object of the Liangzhu peoples (c. 3500 to 2000 B.C.) from the southeast.

Cong: height 1.8 centimeters, diameter 7.7 centimeters (0.7 by 3 inches). Wu T'ang-hai Collection. Pig dragon figurine: height 8.8 centimeters (3.5 inches). Piao-te-hsüan Collection.

A complete jade burial suit, Western Han Dynasty (206 B.C. to A.D. 24). Length 175 centimeters (69 inches). Piao-te-hsüan Collection.



THE SAN DIEGO HORNED LIZARD

THE HORNED LIZARDS (genus *Phrynosoma*) are among the more bizarre of the reptiles native to southern California. Although they are often called horned "toads," these strange animals are indeed reptiles rather than amphibians, as evidenced by their covering of scales, many of which are in the form of spines and horns.

The spiny epidermis of the horned lizards appears to be an integral part of their specialized life style. Their diet consists almost exclusively of ants, and they are often seen stationed near ant holes, where they snap up their prey with a flick of the tongue. When feeding on the barren ground around ant nests, these relatively large, flat-bodied animals are vulnerable to attack by predators; and unlike more agile species of lizards, they cannot easily escape by running long distances or retreating into the safety of a hole or tree.

In exposed situations, horned lizards rely on several lines of defense. The first is camouflage: a motionless horned lizard, with its mottled coloration and low body profile, can be amazingly difficult to spot against the sandy ground of its

natural surroundings. If it is attacked by a fox or coyote, a horned lizard will sometimes attempt to startle the hunter by squirting a stream of blood from the edge of its eye. As a last resort, the lizard's heavy armament of spines and horns can pierce the delicate mouthparts of a potential predator.

That the spines of horned lizards are effective even against snakes is graphically documented by two skeletons found in the wild and now preserved in the Natural History Museum's herpetology collections. The skeletons, one of a horned lizard and the other of a Glossy Snake (*Arizona elegans*), are locked together, the snake with its jaws opened wide around the skull of the lizard. The encounter between these two apparently led to the death of both predator and prey.

Horned lizards were once common in the Los Angeles area, and long-time residents often remark that they remember "horny toads" from childhood but haven't seen one in years. The lizards

have become rare for a variety of reasons, but conversion of their habitat to housing tracts and other uses is probably the most important factor. As a result, the San Diego Horned Lizard (*Phrynosoma coronatum blainvillii*), which is the form native to the coastal regions of southern California, is now a candidate for protection under the Endangered Species Act.

In addition to determining the distribution and density of the remaining populations of the San Diego Horned Lizard, there are several other basic issues to be considered before it can be declared endangered. One of these is whether it is actually different from horned lizards found elsewhere in California and Baja California, some of which are still abundant.

High school students in the Museum Research Apprenticeship Program



THE HANCOCK PARK IMPROVEMENT PROJECT

(MRAP) have been conducting research aimed at answering this question. Using specimens from the museum collections, the students have analyzed the differences between individuals in various populations of horned lizards from throughout California. Their studies indicate that features of its head scales distinguish the San Diego Horned Lizard from other kinds of horned lizards.

The results of the students' research have also helped clarify the distribution of the San Diego Horned Lizard: although it is found primarily along the coast, its range extends inland to Joshua Tree National Monument. To promote survival of this lizard, it is desirable to conserve as many separate populations as possible. But it is reassuring to know that the San Diego Horned Lizard is found in the monument, where its habitat has good prospects for continued protection.

DR. ROBERT L. BEZY
Curator, Herpetology

OPPOSITE TOP

Most of the horned lizards' spines are strictly epidermal, but the large projections at the back of the head are composed of bone. Photograph by Wade C. Sherbrooke.

OPPOSITE BOTTOM

The horned lizards' first line of defense is camouflage, and they can be quite difficult to spot on their natural background. Photograph by Lester G. Milroy 3rd.

BOTTOM

The research of high school students in the Museum Research Apprenticeship Program has provided valuable information about the San Diego Horned Lizard, a candidate for protection under the Endangered Species Act. Here, MRAP student Paula Esparza is measuring the features of a specimen's head. Photograph by Susan Lafferty.



OVER THE NEXT YEAR, HANCOCK Park—the site of the world-famous Rancho La Brea asphalt deposits—will undergo major renovation. When the work is completed, visitors to the George C. Page Museum of La Brea Discoveries and the Los Angeles County Museum of Art will find a pleasant, well-landscaped environment rich in natural and artistic experiences.

The Hancock Park master plan, which is aimed at unifying and enhancing the open spaces around the two museums, calls for a new system of pathways and bridges throughout the park. A new enclosure for Pit 91, the current excavation site, will feature a translucent covering and a surround that incorporates friezes identical to those around the upper level of the Page Museum. An attractive courtyard will replace the structures overlooking the Lake Pit, the water-filled remains of a nineteenth-century asphalt quarry that is now the site of a tableau of a mammoth family in distress.



In addition to improvements in the basic features of the park (irrigation, lighting, fencing, landscaping, and food service and picnic facilities), the project includes provisions for expanded as well as new sculpture gardens and outdoor art displays near the art museum. A central grassy area will be preserved as a site for sunbathing, community events, or cultural performances. The full realization of the master plan has been made possible by a \$7 million gift to LACMA from Dorothy Collins Brown that supplements a \$5 million county bond issue.

The Hancock Park Improvement Plan has been developed by a group of local officials and community leaders, with the Natural History Museum represented by James R. Gilson, Vice President for Governmental Affairs and General Counsel; Leonard M. Navarro, Deputy Director for Administration; Dr. Kenneth E. Campbell, Page Museum Administrator and Curator of Vertebrate Paleontology; and Brian Mahan,

Head of Museum Operations. Work is scheduled to start in spring 1996. Although the park and the Page Museum parking lot will be closed for periods during the later phases of the project, the Page Museum itself will remain open. Before visiting, members may wish to call the museum to learn about temporary parking arrangements (213/936-2230 or 213/857-6311).

A walkway along Wilshire Boulevard in Hancock Park (top), and an artist's rendering of the planned landscaping and fencing. Courtesy of Olin Partnership.

THE LON CHANEY COLLECTION

LON CHANEY MADE HIS LAST FILM over 60 years ago, and yet he still sets the standard against which today's horror stars and makeup artists measure themselves. The cadaverous face of his *Phantom of the Opera* and the bulging misshapen body of the Hunchback of Notre Dame were not created by a team of costume designers, technicians, and makeup men. Instead, these characters were designed and developed as well as interpreted by Chaney himself.

When Lon Chaney (1883–1930) began his film career at Universal Pictures about 1910, studios as a rule did not have makeup artists or wardrobe departments. Actors and actresses usually were expected to apply their own makeup and to supply their own costumes. It was the development of the studio system in the late 1920s and the emergence of studio unions that changed these practices. Chaney, therefore, was not unique in his ability to wield a tube of greasepaint; all actors of his time knew how to apply their own makeup.

The tools in Chaney's makeup kit (which was given to the Natural History Museum in 1932 by his widow, Hazel) also do not provide many clues to his artistry. The kit itself resembles a fishing tackle box, and nothing out of the ordinary is found inside; its folding metal trays contain false teeth, a wig, a mirror, glass eyes, powder puffs, hairpins, tubes of greasepaint, nose putty, and grease liner pencils. In addition to these basics,

Chaney borrowed materials from the stock for a physician's bag. He used cotton and collodion (a viscous plasticlike substance employed in coating wounds) to build up parts of his face, and he applied fishskin (a flexible yet tough transparent film) to pull and hold his features in distorted positions. Yet these techniques were in common use in theatre and film dressing rooms.

If not makeup materials and methods, what set Lon Chaney apart? One answer is his great expertise in the effects of dramatic illumination. Chaney had worked on theatrical stages as a crew member early in his career and understood how lighting could emphasize the shading and colors provided by makeup; he brought this knowledge with him to the motion picture set.

The actor had phenomenal willingness to experiment with transformation. For practice he sometimes made himself up to look like people he saw illustrated in magazines. He credited the effectiveness of his frightening *Phantom of the Opera* face to the application of standard greasepaint in not-so-standard facial areas.

Chaney was also a perfectionist who would spend weeks developing the makeup for a new character. When he was satisfied with the results he saw in his mirror, thousands of feet of film would be consumed in makeup tests so that he could fine-tune the effects before the film actually began production. He defined characters not by actions or words but rather by their



physical appearance; he in effect assumed his roles from the outside in.

Although the Chaney artifacts are a small part of the Natural History Museum's early film collection, they are one of its most significant and are often studied by film historians. Recently, the Chaney items were filmed by NHK, Japanese Public Television, for use in their 90-minute documentary about visual effects in Hollywood films. Most of the scholarly interest has focused on the contents of the makeup kit: researchers find it difficult to believe that Chaney's frightening countenances were developed from such a limited variety of cosmetics.

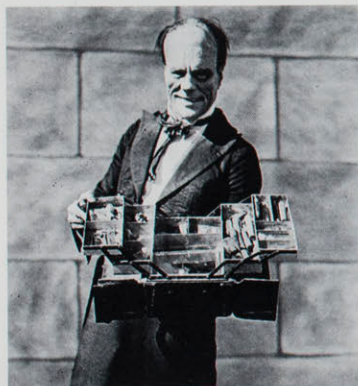
BETH WERLING
History Collections Manager

TOP

Lon Chaney. Natural History Museum of Los Angeles County, Seaver Center for Western History Research, Collection P-26.

LEFT

Lon Chaney in his *Phantom of the Opera* costume holding his makeup kit, which is now in the Natural History Museum collections. Chaney photograph, Natural History Museum of Los Angeles County, Seaver Center for Western History Research, Collection P-26. Makeup kit photograph by Dan Watson.



MUSEUM ON THE MOVE

■ NEW MEDIA RELATIONS MANAGER

Gina K. Ward has joined the Natural History Museum's Marketing and Communications Division as Manager of Media Relations. Ward has a bachelor's degree in communications, with an emphasis on public relations, from California State University at Fullerton, where she graduated with honors. She was an account executive for The Benjamin Group, an Irvine public



relations agency, and has developed publicity campaigns and organized special events for several nonprofit organizations, including the Orange County Performing Arts Center, the Laguna Beach Sawdust Festival, and the Make-A-Wish Foundation.

■ BUSINESS ASSOCIATES

The Natural History Museum's Business Associates are a distinguished group of corporations that make annual gifts of \$2,000 or more in support of the museum's exhibitions and educational programs. In addition to taking pride in contributing to the rich cultural life of southern California, the

museum's business members are offered a broad range of benefits and incentives as well as special recognition of their vital role in the museum's public outreach.

In the past year, under the leadership of Museum Trustee Gary Jacobs, officers of the participating companies have enjoyed a stimulating series of luncheons with noted guest speakers. The museum is grateful to Mr. Jacobs, and to the organizations listed below, our Business Associates for 1995-1996.

We invite you and your company to join the Business Associates. For more information, please call Richard R. Larkin, Vice President for Development, at 213/744-3307.

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THE FIGHTING DINOSAURS

Dr. James L. Powell, President and Director of the Natural History Museum of Los Angeles County, has announced that, through the Tamkin Foundation, Dr. S. Jerome and Judith D. Tamkin have pledged \$250,000 to the museum to create a fighting dinosaur exhibit for the center of the museum's foyer. The Tamkins have been members of the museum since 1986; their gift is made in honor of their five grandchildren and "all the present and future grandchildren of the County of Los Angeles."

The new exhibit, which is expected to premiere in mid-1996, will feature the skeletons of two dinosaurs, a *Tyrannosaurus rex* and a *Triceratops*, that were found by museum expeditions to Hell Creek, Montana. Natural enemies, the dinosaurs will be posed in dramatic combat. The entire display will stand 18 feet tall, 36 feet long, and 16 feet wide (5.5 by 11 by 4.9 meters).

According to museum paleontologist



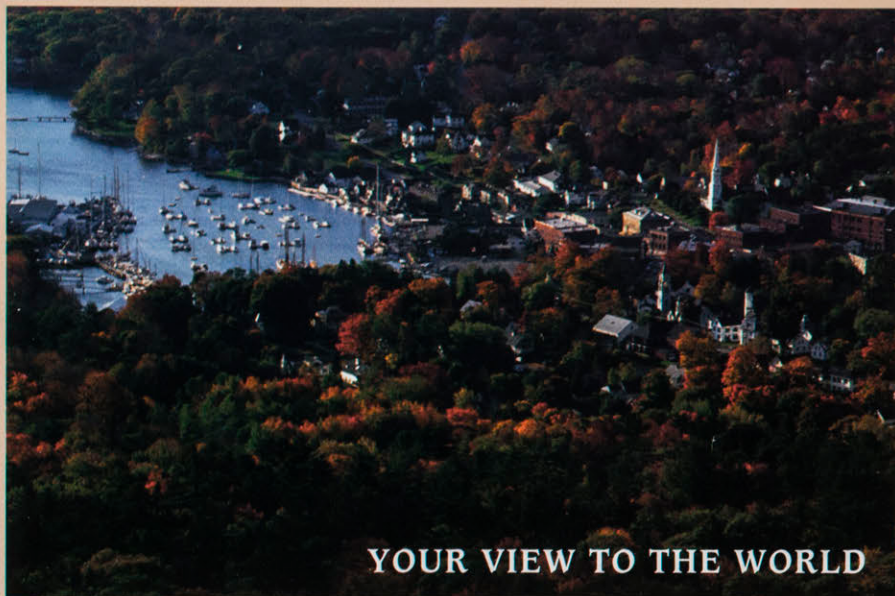
Dr. John M. Harris, The Fighting Dinosaurs will be composed of real bones from the museum's collections, supplemented by casts. The Natural History Museum is one of the few in the world to own complete *Tyrannosaurus* and *Triceratops* skulls. Because of their rarity, the skulls will not be incorporated into the new mounts but will instead be featured in a neighboring display.

"The dinosaurs that had graced the museum's entrance for more than 30 years provided a hallmark signature for our entire museum," said Dr. Powell. "This donation allows us both to return dinosaurs to their rightful place and to provide a spectacular new display. We are deeply grateful to the Tamkin family."

Museum President and Director Dr. James L. Powell (at right) with Dr. S. Jerome and Judith D. Tamkin, sponsors of a new exhibit, The Fighting Dinosaurs. Photograph by Chris Barr. Exhibit rendering (above) courtesy of Michael Stokes.



MUSEUM TRAVEL PROGRAM



YOUR VIEW TO THE WORLD

HIGHLANDS AND ISLANDS OF SCOTLAND

May 25 to June 1, 1996

Sail from Glasgow to Edinburgh aboard the 80-passenger *Polaris*, exploring the wild outer reaches of Scotland. Anchor at the Island of Rum, a Scottish national nature reserve, and walk the lovely trails. Visit the 12th-century Iona Abbey and the sea caves and puffin colony on Staffa Island. Tour the famous Inverewe Gardens and the standing stones of Callanish.

■ From \$3,360 plus airfare

ALASKA

May 26 to June 1, 1996

Voyage through the famed Inside Passage aboard the 138-passenger *Yorktown Clipper*, enjoying springtime in southeast Alaska. Search for migrating pods of humpback and killer whales in Misty Fjords National Monument and view harbor seals with newborn pups in the shadow of the strikingly blue Sawyer Glaciers. Tour Juneau, Haines, and Skagway as well as Glacier Bay National Park.

■ \$1,650 plus airfare

Photographs of Maine
by Elmer Nielson

MAINE

July 11 to 17, 1996

Maine—remote, rural and beautiful—is defined by a coastline that stretches 3500 miles and encompasses 500 islands. Local naturalists and guides will lead us on visits to the Rachel Carson Wildlife Refuge, Monhegan Island, seafaring towns like Camden and Searsport, Bar Harbor and Acadia National Park. We'll spend three fabulous nights aboard the windjammer *Schooner Mercantile*.

■ \$1,695 plus airfare

NATIONAL PARKS OF THE WEST

September 29 to October 8, 1996

All aboard the *American Orient Express* for a journey from the Colorado Rockies through the canyonlands of Utah to the Grand Canyon, the Painted Desert, and the high plains of New Mexico. We'll stop to study native plants and wildlife and learn about the ancient peoples who inhabited these wild and remarkable places. Enjoy superb meals and service in vintage carriages accented with mahogany and brass.

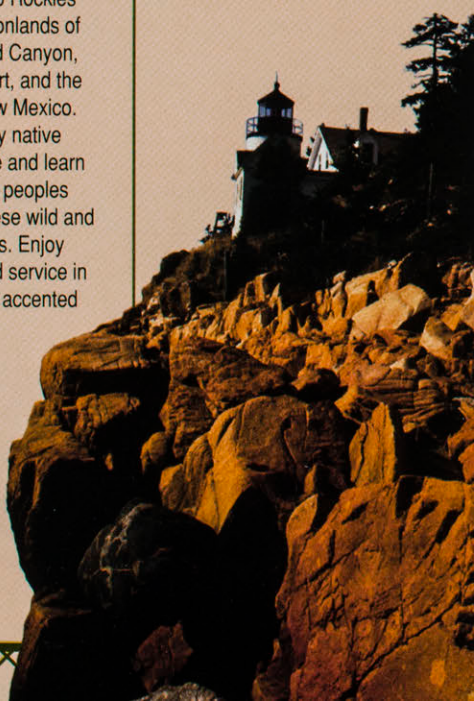
■ From \$3,990 plus airfare

EGYPT

October 26 to November 14, 1996

Join us for an encore presentation of our sold-out February Egypt tour with Dr. Kent Weeks. Our itinerary includes an exclusive charter cruise on the Nile and visits to pyramids at Giza and the Egyptian Museum in Cairo. We'll see Memphis, Karnak, the Valley of the Kings, and the temples near Aswan and Abu Simbel, as well as recently discovered tombs not open to the general public. Dr. Weeks will lecture at the Museum of Natural History in Exposition Park on Sunday, June 30 at 2pm; watch for details in the next *TERRA*.

■ Approximately \$5,500 including airfare



EXHIBITIONS AND SPECIAL EVENTS

Reinstallation

■ KNIGHT MURAL OF RANCHO LA BREA

Among the most valuable objects in the collections of the Natural History Museum of Los Angeles County is a mural of the Rancho La Brea tar pits commissioned by the museum in 1925 from artist Charles R. Knight. The mural, which depicts extinct animals at a Los Angeles asphalt seep, was completed in 1926, in the Science wing of what was then the Museum of History, Art, and Science. It remained on exhibit until August 1989, when it was taken down for restoration. Now with its original vibrant colors revealed, the mural is back on display to help us visualize life in the Los Angeles Basin between 5,000 and 40,000 years ago.

Charles Robert Knight (1874–1953) was the first artist to attempt to infuse prehistoric scenes with scientific accuracy as well as beauty. His work—a total of 800 drawings, 150 oil paintings, and numerous sculptures—laid the foundation for our modern concept of many animals long extinct.

Knight's spectacular rendition of Rancho La Brea's past depicts grounds sloths, sabertoothed cats, dire wolves, and scavenging birds grouped around an asphalt pool. Lions, camels, horses, bison, and mammoths roam the middle distance before a backdrop of the Santa Monica Mountains. The mural, one of Knight's greatest and most famous works, places the "treasures of the tar pits"—the countless numbers of fossil bones, mollusk shells, and insect and plant remains retrieved from eight decades of excavation in Hancock



FOR MORE INFORMATION

please contact Karen Hovanitz
Museum Travel Program
(213) 744-3350.



Park—into a readily understandable context. Knight's restoration of the sabertoothed cat (*Smilodon fatalis*), the California state fossil and the focal point of the entire mural, provided the basis for the Natural History Museum's familiar logo.

With the aid of a conservation grant from the Institute for Museum Studies, the mural was restored in the winter of 1989–1990 by a team of conservation experts led by Rosamund Westmoreland, formerly Head Conservator at the National Portrait Gallery of the Smithsonian Institution. Be-

cause its two panels together are 10 feet tall and 50 feet wide (about 3 by 15 meters), it was not easy to find a space to mount the restored mural for exhibition. However, it now takes pride of place in the center of the Olympics Gallery, just off the Exposition Park museum's main foyer, where it is surrounded by the skeletons of animals that lived at the time the tar pits were forming.

DR. JOHN M. HARRIS
Chief Curator



Opening and Continuing Exhibitions

■ **Stones from Heaven: Ancient Chinese Jade**, March 3 through May 12, Dart Gallery, Museum of Natural History, Exposition Park. This exhibition of several hundred jade pieces, from two of the world's foremost private collections, includes ritual objects from the late Neolithic era (4000 to 2500 B.C.) as well as a complete 2,000-year-old jade burial suit.

■ **Wild Silk Moths: Photographs by Kirby Wolfe**, through June 30, Ground Floor Hall Galleries, Museum of Natural History, Exposition Park. A series of stunning, full-color photographs of silk moths highlights some of the most beautiful and grotesque of the night-flying creatures.

■ **The Tongass: Alaska's Magnificent Rain Forest**, through March 31, Rotunda, Museum of Natural History, Exposition Park. Forty-two color photographs taken in the largest of the U.S. national forests capture the beauty of the land and hint at the enormity of the resources to be found in this remote and pristine area.

■ **The Pantanal: Brazil's Forgotten Wilderness**, through March 31, Director's Gallery, Museum of Natural History, Exposition Park. This photographic profile of a little known tropical wonder, the gran Pantanal, includes scenic and historical views as well as portraits of the area's spectacular plants and animals.

■ **Harley Legends**, through 1996, Third Floor Galleries, Petersen Automotive Museum. A rare collection of vintage, new, and custom Harleys on loan from collectors around the world chronicles the 90-year history of the Harley-Davidson Motor Company, the sole remaining U.S. motorcycle manufacturer.

■ **The Glory of Nature: Paintings by Hao Zhong-Sheng**, through April 15, Foyer, Museum of Natural History, Exposition Park. On view are several watercolor paintings of Chinese wildlife and wilderness by this distinguished artist; the exhibition is his first in the U.S.

PROGRAMS FOR MEMBERS AND VISITORS

LECTURES & SPECIAL EVENTS

■ CHAMBER MUSIC SERIES

William S. Hart Museum, Newhall
Saturdays, May 4, and June 1, 8 p.m..

Join us for a chamber music experience at the beautiful William S. Hart Museum. This year's spring and summer music series will be presented by the outstanding Santa Clarita Chamber Players in the intimate atmosphere of the living room of the Hart mansion; refreshments are offered following the performances. Costs per concert are \$30 per person, \$50 per couple, members; \$35 per person, \$60 per couple, nonmembers. Please call 805/254-4584 for more information.

A slide-illustrated lecture

■ CHRISTIAN CYPRUS

The Island of Aphrodite in Early Byzantine Times

Saturday, March 2, 2:30 p.m., Jean Delacour Auditorium, Museum of Natural History, Exposition Park

The island of Cyprus has always been at the crossroads of culture. Join us as **Professor Timothy E. Gregory** of Ohio State University explores the history of early Christian Cyprus. The startlingly beautiful mosaics and other archaeological remains of the island's many churches shed light on the growth of Christianity as well as the evolution of the wealth and power of the Church. This lecture is offered in association with the Archaeological Institute of America/Los Angeles County Society. \$7 members, \$9 nonmembers, \$5 students and teachers.

A talk by Dr. Meave Leakey

■ DIGGING UP OUR PAST

Sunday, April 28, 2 p.m., Jean Delacour Auditorium, Museum of Natural History, Exposition Park

Join world-renowned paleoanthropologist **Dr. Meave Leakey** as she reveals the startling details of her team's most recent fossil finds at Kanapoi and Allia Bay in northern Kenya. The new fossils may help to unravel one of the fundamental mysteries of human evolution: when did our ancestors begin to

walk upright? Dr. Leakey and her colleagues have identified a previously unknown species of early man, *Australopithecus anamensis*, whose fossilized remains have pushed the emergence of bipedalism 500,000 years earlier than previous data had indicated. The new discovery affords us an extraordinary glimpse at the very beginnings of humanity. \$10 members, \$15 nonmembers, \$7 students with I.D.

■ DINOSAUR DNA

Sunday, April 21, 2 p.m., Jean Delacour Auditorium, Museum of Natural History, Exposition Park

Dr. Yun Zhang, a member of the Chinese scientific team working to extract and isolate viable DNA sequences from dinosaur eggs, presents his controversial research in a slide-illustrated lecture. Dr. Zhang will discuss the discovery of dinosaur egg localities in China and the implications of his team's work. Natural History Museum curators **Dr. Robert J. Lavenberg** and **Dr. J.D. Stewart** and Amgen's **Dr. Jakob Bogenberger** will join Dr. Zhang for a panel discussion on this intriguing new study; **Dr. Tod Stuessy**, the museum's Deputy Director for Research and Collections, will moderate. \$7 members, \$9 nonmembers, \$5 students with I.D.



Symposium

■ STONES FROM HEAVEN: ANCIENT CHINESE JADE

Sunday, March 24, 9 a.m. to 4:30 p.m., Jean Delacour Auditorium, Museum of Natural History, Exposition Park

Join world-renowned archaeologists and art historians for an exploration of the history of Chinese jade, its manufacture and symbolism, and its relation to the emergence of Chinese civilization. Among those presenting their most current research on this fascinating subject are **Prof. Elizabeth Childs-Johnson** (Hamilton College, Clinton, New York), **Dr. Mou Yongkang** (Zhejiang Institute of Cultural Relics and Archaeology, China), **Dr. Deng Shuping** (National Palace Museum, Taiwan), **Dr. Wen Guang** (Beijing Institute of Geologic Sciences; visiting scholar, Smithsonian Institution), and **Wu T'ang-hai** whose collection of early jade plays a major role in the museum's new exhibit *Stones From Heaven: Ancient Chinese Jade*. The presentations will be introduced by the exhibit's curator, **Dr. Adam Kessler** of the Natural History Museum.

As part of the day's events, **Sam Bernstein** of S. Bernstein and Company, San Francisco, will moderate a panel discussion on authentication. Program participants will have the opportunity to view the new exhibit. \$55 members, \$65 nonmembers, \$25 students with ID.

Animal mask jade ornament. Width 2.5 centimeters (1 inch). Wu T'ang-hai Collection.

Lecture and booksigning

■ THE SONG OF THE DODO

Island Biogeography in an Age of Extinctions

Saturday, May 4, 2 p.m., Jean Delacour Auditorium, Museum of Natural History, Exposition Park

Giant lizards, pygmy elephants, flesh-eating parrots—these and other bizarre creatures

Meave Leakey and her colleague, **Peter Nzube Mutiwa**, who has just discovered the 4.1-million-year-old mandible of a new species of hominid. Photograph by Bob Campbell.

suggest that something is different about life on islands. In Darwin's time, island biogeography was the science that opened Victorian minds to the wonders of evolution. In our own era, with wild landscapes being chopped into island-like fragments, it is the science of jeopardy and extinction.

David Quammen, a former Rhodes scholar and two-time National Magazine Award recipient, gives us both sides of the story in this lecture that illustrates his latest work, *The Song of the Dodo* (Scribner, April 1996). \$7 members, \$9 nonmembers, \$5 students with ID.

ADULT WORKSHOPS & CLASSES

■ PALM STALK BASKETRY

Saturday, May 4, 10 a.m. to 5 p.m., Education Classroom, George C. Page Museum

Balmy southern California has an abundance of palm trees. In this class, you'll learn to recycle the dead, flowering stems from these trees and use them to coil a functional and beautiful basket or tray. Your instructor is master basket maker **Judy Mulford**. \$55 members, \$65 nonmembers.

■ ALL NATURAL EASTER EGG DYEING AND DECORATING

Saturday, March 30, 1 to 5 p.m., Education Classroom, George C. Page Museum

Add a decorative touch to your holiday by creating naturally beautiful Easter eggs with instructor **Terre Ashmore**. Ashmore will share her unique approach to egg decorating and introduce us to all-natural dyeing and coloring techniques as we create our own original works of art. \$45 members, \$55 nonmembers.

ADULT FIELD TRIPS

■ PELAGIC BIRDS AND MAMMALS

Sunday, March 3, 7 a.m. to 4 p.m.

Join museum naturalists aboard the Research Vessel *Vantuna* for an all-day expedition to observe the wildlife of the San Pedro Channel. Journeying near and beyond Santa Catalina Island, we'll search for sea birds and observe gray whales making



Owens Valley meadow. Photograph by Andrew Kirk.

their way along the Pacific coastline. Our guides will identify and discuss the natural history of the birds and marine mammals that we see. Please bring a bag lunch. \$55 members; \$65 nonmembers.

An Historical Walking Tour

■ LOS ANGELES' CHINATOWN

Saturday, March 23, 10 a.m. to 1 p.m.

Join us on this 3-hour walk through Chinatown with docent guides from the Chinese Historical Society of Los Angeles. We'll learn about local architectural styles and the history of the Chinese culture in Los Angeles. We'll also view the Chinatown Branch of the Los Angeles Library, the Kong Chow Temple, and the Chinese Confucius Temple. \$12 members, \$15 nonmembers.

■ SCARABS II

California's Other Gold

Saturday, 4 p.m., through Sunday, 11 a.m., April 13 to 14

Join **Dr. Art Evans**, Director of the Natural History Museum's Insect Zoo, on a hunt for the elusive California scarab beetle. On this overnight excursion to the Santa Monica Mountains, we'll discover the fascinating habits and behaviors of scarab beetles as we collect specimens for the museum's Insect Zoo. Our trip begins

with an orientation workshop where **Dr. Evans** will introduce us to the California scarab beetle and prepare us for our adventure in entomology. Saturday evening snack and Sunday breakfast are included; participants provide their own camping gear and Saturday night dinner. \$55 members, \$65 nonmembers.

■ SPRING IN THE OWENS VALLEY

A Birding and Natural History Tour

Friday through Sunday, April 26 to 28

Spend the weekend in a country inn nestled at the foot of the mighty Eastern Sierra, enjoying nature walks, bird watching, and an evening barbecue in the wilderness setting of the Owens Valley. More than 300 species of birds, 80 species of mammals, and 40 species of reptiles visit or live in the Eastern Sierra; in a weekend filled with activity, we'll tour a variety of habitats where these animals breed, nest, and forage.

Ornithologist **Andrew Kirk** will lead our birding expeditions through the wetland wonders of the valley's watercourses. On the way, we'll visit the castle-carved cliffs of Red Rock Canyon and explore Fossil Falls with museum paleontologist and geologist **Dr. Dave Whistler**. We'll also stop at the Maturango Museum and the Northern Mojave and Eastern Sierra

PROGRAMS FOR MEMBERS AND VISITORS CONTINUED

Visitors Centers and enjoy an alfresco chamber music concert in the Alabama Hills.

The package includes two nights of lodging at the Winnetum Hotel in Independence, all meals, and round-trip chartered motor-coach transportation. Tour departs at 8 a.m. on Friday morning and returns by 8 p.m. Sunday evening. \$265 members, \$290 nonmembers.

■ SEA CAVES, STARS, AND SUNFLOWERS

A Weekend on Santa Cruz Island
Friday through Sunday, April 19 to 21

Historic Scorpion Ranch on the eastern end of Santa Cruz Island will be our home base during a weekend of land and sea island explorations. With botanist and Channel Islands expert **Steve Junak**, we will hike the island's hills and trails to view the beautiful spring wildflower show. An early morning kayak will take us to secret sea caves, and we'll investigate the island's unique intertidal habitat. In the evenings, we'll relax at the ranch under the spring stars, enjoying the peace of this very special place.

Transportation to and from the island, by boat from Ventura, is included. Lodging—in the ranch house or adobe bunkhouse—is rustic but comfortable, and delicious meals are provided. \$450 members, \$475 nonmembers.

■ SWIM WITH THE SHARKS

Saturday, March 9, 2 to 4 p.m., Education Classroom, Museum of Natural History, Exposition Park. Ages 7 to 12

Are all sharks ferocious animals with razor-sharp teeth? We will separate fact from fiction in this encounter with the ocean's most formidable inhabitant—the shark. With paleontologist **Mark Roeder**, we'll see and touch shark teeth and skin and even make our own "shark kit" to take home. Materials fee \$5; \$20 members, \$25 nonmembers.

Parents: Combine *Swim With the Sharks* and *Panning for Gemstones* for a full day of fun and learning. Students will be supervised between 1:30 and 2 p.m. and should bring a bag lunch or snack.

FAMILY FUNDAYS!

These hands-on family programs are **free** with museum admission for children ages 4 and older. They are held in the Discovery Center of the Museum of Natural History in Exposition Park. No reservations are necessary, but space in some programs is limited, so please arrive early.

■ MUSICAL MAGIC Saturday, March 16, 1:30 p.m. Make merry music from miscellaneous materials! Musician, educator, and artist Robert Hilton will lead the children in constructing and decorating their very own flute out of recycled plastics. Come join the band!	■ BUSY BEE DISCOVERY! Saturday, April 13, 1:30 p.m. Beekeeper Dave Williams will bring a real hive, a taste of honeycomb, and a piece of beeswax for every child. While creating a craft item, we'll learn how these insects help farmers and flowers alike.
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■ SAILING THE ARCHIPELAGO

The Queen Charlotte Islands of British Columbia

Friday, August 9 to Friday, August 16,

The Queen Charlotte Islands are considered one of the richest biological and cultural areas in North America. Aboard our 68-foot sailboat, *Island Roamer*, we will explore these islands, which are difficult to reach and rarely visited but resplendent with old-growth forests of spruce, hemlock, and cedar underlain with carpets of mosses and berry bushes. Killer whales, the fast-swimming Dall's porpoises, Bald

Eagles, puffins, black bears, and river otters are among the native wild animals we may see on the cruise.

The islands are home to the culturally rich Haida Indians. With Haida guides, we will visit abandoned villages containing the remains of the great log houses and some of the best original native totem poles to be found in the world.

Lodgings are private cabins accommodating two persons each. \$1,900 members, \$1,945 nonmembers, airfare not included; a deposit of \$250 is required. Space for this outstanding trip is limited. For further information, please call Sue Lafferty, 213/744-6912.

■ PANNING FOR GEMSTONES

Saturday, March 9, 11:30 a.m. to 1:30 p.m., North Lawn, Museum of Natural History, Exposition Park. Ages 7 to 12

Spend the afternoon panning for gemstones with paleontologist **Mark Roeder**. We'll screen and wash tourmalines, quartz crystals, several types of mica, and other minerals. We'll also discover how gemstones are formed and experiment with various rock and mineral samples. And you will take home all of the gemstones that you pan. Materials fee \$6; \$20 members, \$25 nonmembers.

■ LOTUSLAND

America's Most Exotic Garden

Saturday, May 11, 7 a.m. to 5:30 p.m.

Lotusland, the former Montecito estate of Russian operatic soprano Madame Ganna Walska, was a secret, virtually unknown except to garden aficionados and botanists and closed to visitors until 1992. Nestled in the foothills just east of Santa Barbara, this 37-acre estate encompasses a remarkable horticultural collection of tropical and subtropical plants, among them three South American plants that no longer exist in the wild. With botanist **Dr. Gary Wallace**, we'll study the changing flora as we journey up the coast and then spend 2 hours privately touring the gardens of

Registration includes admissions fees and transportation by chartered motor coach; participants provide their own picnic lunch, \$55 members, \$65 nonmembers.

A family camping trip

Friday through Sunday, March 29 to 31

Discover a world of 13-million-year-old Miocene fossils on this trip to Red Rock Canyon. We'll search for fossils, take a nature hike to the canyon's raptor breeding grounds, and relax in camp, all with Curator of Paleontology **Dr. Dave Whistler**. You provide transportation, camping gear, and dinner Friday night (arrive anytime after 3 p.m.), and we will take care of the rest (our trip leaders will prepare all meals on Saturday and breakfast on Sunday).
Members: \$65 child, \$95 adult; nonmembers: \$75 child, \$105 adult.

Saturday, April 20, 10 a.m. to noon.
For infants to 8-year-olds with accompanying adult

Discover the natural world around you on this leisurely hike through Solstice Canyon in Malibu. We'll observe native plants and animals, sing songs, and play games while learning about the environment. Docents from Nursery Nature Walks will be our guides; the trail can accommodate most strollers. Cost per person \$5 members, \$7 nonmembers.

Students in grades 4 through 8 are invited to participate in a writing competition on the subject of life in the oceans, earth's last great frontier. The Dr. Henry and Lilian Nesburn contest rewards writing excel-

lence in three categories—fiction, factual reporting, and poetry. Entries are restricted to students in public and private schools within Los Angeles County and must be received by May 1, 1996. A prize of \$50 will be awarded to the winner in each competition category at each grade level.

Awards will be presented in June at a special weekend event celebrating the joy of reading. The ceremonies will include readings by authors of children's books,

storytelling in the museum's galleries, presentations by illustrators, calligraphy and paper-making demonstrations, and special children's craft activities. Nesburn award winners will also be treated to a visit to the museum's Seamobile, where they will enjoy a simulated trip to the ocean floor off the California coast.

Please contact the Education Division at 213/744-3534 to obtain rules and entry forms.

■ **By telephone:** Use your MasterCard or VISA. Call the Education Division at 213/744-3534, weekdays, 8 a.m. to 4 p.m. Credit cards are accepted only with a minimum charge of \$20.

■ **By mail:** Complete the form below, fill in the charge information or enclose a check payable to Museum Foundation, and return your order form and payment with a self-addressed, stamped envelope. The form may be duplicated. Mail to: *Education Division, Natural History Museum, 900 Exposition Boulevard, Los Angeles, CA 90007*

■ **Important: Reservation, Waiting List and Refund Policies.** Preregistration is required for all classes, workshops, and field trips and is recommended for all other Education Division programs. Tickets to auditorium events may be purchased at the door; seating is not reserved. Reservations are not necessary for Family Fundays.

Applicants for filled programs will be placed on a waiting list and contacted if vacancies or rescheduling occur. If you have paid for a filled program, your payment will be refunded in 4-6 weeks.

Cancellations must be made one week prior to the first day of the event for the registrant to be eligible for a refund. Only if we are able to fill your space will the fee be refunded.

Dates and times of programs are subject to change, and class sizes are limited. Please call 213/744-3534 weekdays between 8 a.m. and 4 p.m. to verify program dates, times, and availability.

Mr.	()
Mrs.	
Miss	HOME
Ms.	()
NAME (Please Print Clearly)	BUSINESS

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Mail to:

Education Division
 Natural History Museum
 900 Exposition Blvd.
 Los Angeles, CA 90007

Program	Number of participants	Price	Total Price

☐ My check is enclosed

Charge my credit card:

☐ MasterCard

☐ VISA

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Please list children's names, ages, and programs in which they are enrolling:

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As of November 30, 1995

Fred Flintstone® and Dino flank their creator, Joe Barbera, at the opening of The Flintstones' Din-o-discovery™. The new exhibit was unveiled by Fred Seibert (left), president of Hanna-Barbera, Inc., and Dr. James L. Powell, president and director of the Natural History Museum.

The Flintstones' Din-o-discovery, which was designed for 4 to 12 year olds, consists of a series of interactive exhibits that enhance and augment the displays in the Exposition Park museum's existing Dino-saur Hall. The exhibit was created in commemoration of the 35th anniversary of The Flintstones and uses characters from Hanna-Barbera's popular cartoon to make important facts about prehistory more memorable and fun for children.

Hanna-Barbera, Inc., a wholly owned subsidiary of Turner Broadcasting System, Inc., developed the new exhibit in conjunction with child educators and paleontologists. Two leading Flintstones licensees, Kid Rhino and Kraft Foods, are planning individual promotions around the exhibit, which will appear on the First Floor of the Exposition Park museum through 1996.



As of December 31, 1995

MEMBERSHIP

AMERICAN INDIAN FESTIVAL AND MARKET

Museum members are invited to attend a members-only preview of the American Indian Festival and Market, which returns to the Natural History Museum for its twenty-fourth year. This Southland tradition, at the Exposition Park museum from March 15 through 17, showcases the talents of award-winning Native American artists, who will be on hand to demonstrate their skills and discuss and sell their works.

The members' preview, on March 14 from 6 to 9:30 p.m., allows members a chance to view and purchase exquisite art and wares before the festival opens to the general public. The preview evening includes special presentations of Native American music and dance as well as light refreshments.

Please call the Membership Office at 213/744-3426 by March 10 to make your reservations.

BEHIND THE SCENES TOURS

The Membership Office is pleased to announce its spring series of behind-the-scenes tours and receptions at the Museum of Natural History for Naturalist (\$250) and Explorer (\$500) members. The tours, which are limited to 15 to 25 people, are a wonderful opportunity to take a close look at rare and treasured items in the collections with curatorial experts as guides.

In the spring series, tours of the following restricted areas of the museum have been arranged for Naturalist and Explorer members:

- Crustacea collections and laboratories, with Curator Dr. Jody Martin
- Entomology section, with Assistant Curator Dr. Brian Brown
- Marine Mammal Laboratory, with Associate Curator Dr. John Heyning
- Vertebrate Paleontology Laboratory, with Chief Preparator Michael Stokes

For further information on the spring tour program, or to upgrade your membership and receive invitations to these exclusive events, please call the Membership Office at 213/744-3426.



Members enjoy exhibitions and are introduced to aspects of collections care and research during the Natural History Museum's annual Open House. Photographs by Christopher Barr.

PATRON RECEPTION FOR JADE EXHIBITION

On March 8, members at the Patron level (\$150) and above have been invited to attend an exclusive reception for the exhibition, *Stones from Heaven: Ancient Chinese Jade*. Guests will view an outstanding selection of rare jade pieces from some of the best collections in the world with Dr. Adam Kessler, curator of the exhibition, and Dr. Anthony Kampf, curator of its mineralogical content.

At the reception, renowned musicians Zhiming Han and Cynthia Hsiang will per-

form traditional and contemporary music of China on the long zither and the butterfly harp. A selection of Chinese appetizers will be served.

If you would like to upgrade your membership and receive invitations to the reception and other special events, please call the Membership Office at 213/744-3426.

TAX DEDUCTIBLE VALUES

As the tax return deadline approaches, members are reminded that portions of the dues at each membership level are designated tax deductible, as shown below. For further information, please contact your tax advisor.

Membership Level	Tax-deductible Amount
\$40, Active	\$22
\$50, Family	\$26
\$100, Contributing	\$72
\$150, Patron	\$94
\$250, Naturalist	\$192
\$500, Explorer	\$433

SPRING MEMBERSHIP DRIVE

The Natural History Museum is currently in the midst of its "member get a member" campaign. We encourage all of our members to invite their friends to take advantage of the best membership deal in town and join our museum family!

Members who recruit others to join receive special incentives, and prizes are awarded to participants who bring in the most new members. Please call the Membership Office at 213/744-3426 for additional information or to request a Membership Drive package.

25TH ANNUAL MEMBERS OPEN HOUSE

On Friday, April 19, from 6:30 to 10 p.m., members will once again have the opportunity to explore areas of the Museum of Natural History in Exposition Park that are normally off limits and to view curators and other staff members in their natural habitats. All members are invited to attend; please bring your membership card for admission.

The Natural History Museum exists to advance knowledge and to enable people of all ages, backgrounds, and interests to understand and appreciate their natural and cultural heritage. The museum assembles, conserves, interprets, and holds in trust collections of irreplaceable objects from nature and human history. These collections reveal the history of the Earth and the evolution and diversity of life and culture. They sustain programs of research, exhibits, education, and publication.

The **Museum of Natural History**, Exposition Park, is located at 900 Exposition Boulevard, Los Angeles 90007. The **George C. Page Museum of La Brea Discoveries** is located at 5801 Wilshire Boulevard, Los Angeles 90036. The **Petersen Automotive Museum** is located at 6060 Wilshire Boulevard, at Fairfax Avenue, Los Angeles 90036.

For recorded information on museum hours, admission fees for the general public, and days when no admission is charged, please call:

- Exposition Park Museum 213/744-DINO
- Page Museum 213/936-2230
- Petersen Museum 213/930-CARS

Admission to these museums is always free to members.

The **William S. Hart Museum** is located at 24151 San Fernando Road, Hart Park, Newhall 91321. Admission is free. For information on museum hours, please call:

- Hart Museum 805/254-4584

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THE NATURAL HISTORY MUSEUM INVITES YOU TO THE

24TH ANNUAL AMERICAN INDIAN FESTIVAL AND MARKET

SPECIAL
PREVIEW
OPENING
FOR
MUSEUM
MEMBERS
THURSDAY
MARCH 14
6 TO 9:30 P.M.
(SEE PAGE 15)

EXPLORE the arts, crafts, music, and dance of a variety of major American Indian cultural groups. Emerging as well as established artists from across the country will be on hand to discuss and sell their wares.

MEET Seminole/Shawnee painter Benjamin Harjo, Jr. ■ Zuni Pueblo carver Lena L. Boone ■ Hopi silversmith Phil Naavaasya ■ Santo Domingo Pueblo potters Gilbert and Paulita Pacheco ■ Navajo jewelers Gene and Martha Jackson ■ Acoma Pueblo potter Maria "Lilly" Salvador ■ Cayuga Nation flute maker Daniel C. Hill and more than 40 other award-winning artists.

ENJOY performances of the Los Angeles Intertribal Dance Troupe, storytelling by renowned Narragansett/Blackfeet artist Tchin, and rug weaving demonstrations by the Ramah Navajo Weavers Association.

**Friday, Saturday, and Sunday
March 15, 16, and 17
10 a.m. to 5 p.m. daily
Museum of Natural History
Exposition Park**

NATURAL HISTORY MUSEUM STORE LOCATIONS

Natural History Museum
Exposition Park
(213) 744-3488
Open 11am - 5pm

George C. Page Museum
of La Brea Discoveries
(213) 857-6300
Open 10am - 5pm

Petersen Automotive
Museum
(213) 964-6328
Open 10am - 6pm

